Paragraph at page 163 starting at line 12

B2

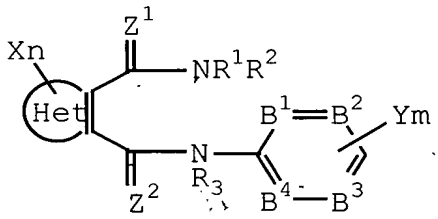
As a result, the following compounds were found to have a corrected mortality of 90% or more: compound Nos. 13, 18, 32, 54, 55, 57, 127, 136, 230, 242, 258, 464, 484, 512, 524, 737, 785, 794, 795, 804, 805, 821, 989, 990, 1009, 1095, 1110, 1127, 1158, 1189, 1204, 1220, 1221, 1247, 1249, 1251, 1255, 1267, 1269, 1271, 1275, 1303, 1306, 1313, 1320, 1414, 1429, 1473, 1505, 1548 and 1549.

IN THE CLAIMS:

Please amend claim 1 as follows (see the attached Appendix for the changes made to effect the below claim):

B3

1. A heterocyclic dicarboxylic acid diamide derivative represented by the general formula (I):



(I

{wherein R^1, R^2 and R^3, which may be the same or different, are hydrogen atoms, (C_3-C_6)cycloalkyl groups, halo(C_3-C_6)cycloalkyl groups or $-A^1-(R^4)r$ (wherein A^1 is a (C_1-C_8)alkylene group, a (C_3-C_6)alkenylene group or a (C_3-C_6)alkynylene group, R^4, which may be the same or different, are hydrogen atoms; halogen atoms; cyano groups; nitro groups; halo(C_1-C_6)alkyl groups; (C_3-C_6)cycloalkyl groups; halo(C_3-

contd. B3

C_6)cycloalkyl groups; (C_1-C_6)alkoxycarbonyl groups; di(C_1-C_6)alkoxyphosphoryl groups whose (C_1-C_6)alkoxy groups may be the same or different; di(C_1-C_6)alkoxythiophosphoryl groups whose (C_1-C_6)alkoxy groups may be the same or different; diphenylphosphino groups; diphenylphosphono groups; phenyl groups; substituted phenyl groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; heterocyclic groups; substituted heterocyclic groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; or $-A^2-R^5$ (wherein A^2 is –O–, –S–, –SO–, –SO_2–, –$N(R^6)$– (wherein R^6 is a hydrogen atom; a (C_1-C_6)alkylcarbonyl group; a halo(C_1-C_6)alkylcarbonyl group; a (C_1-C_6)alkoxycarbonyl group; a phenylcarbonyl group; a substituted phenylcarbonyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; a phenyl(C_1-C_4)alkoxycarbonyl group; a substituted phenyl(C_1-C_4)alkoxycarbonyl group having on the ring one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-

contd B3

C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; a (C_1-C_6)alkylsulfonyl group; or a halo(C_1-C_6)alkylsulfonyl group), –C(=O)– or –C(=NOR^7)– (wherein R^7 is a hydrogen atom; a (C_1-C_6)alkyl group; a halo(C_1-C_6)alkyl group; a (C_3-C_6)alkenyl group; a halo(C_3-C_6)alkenyl group; a (C_3-C_6)alkynyl group; a cyclo(C_3-C_6)alkyl group; a phenyl(C_1-C_4)alkyl group; or a substituted phenyl(C_1-C_4)alkyl group having on the ring one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups), and R^5 is a hydrogen atom; a (C_1-C_6)alkyl group; a halo(C_1-C_6)alkyl group; a (C_3-C_6)alkenyl group; a halo(C_3-C_6)alkenyl group; a (C_3-C_6)alkynyl group; a halo(C_3-C_6)alkynyl group; a (C_3-C_6)cycloalkyl group; a halo(C_3-C_6)cycloalkyl group; a (C_1-C_6)alkoxy(C_1-C_6)alkyl group; a (C_1-C_6)alkylthio(C_1-C_6)alkyl group; a formyl group; a (C_1-C_6)alkylcarbonyl group; a halo(C_1-C_6)alkylcarbonyl group; a (C_1-C_6)alkoxycarbonyl group; a mono(C_1-C_6)alkylaminocarbonyl group; a di(C_1-C_6)alkylaminocarbonyl group whose (C_1-C_6)alkyl groups may be the same or different; a mono(C_1-C_6)alkylaminothiocarbonyl group; a di(C_1-C_6)alkylaminothiocarbonyl group whose (C_1-C_6)alkyl groups may be the same or different; a di(C_1-C_6)alkoxyphosphoryl group whose (C_1-C_6)alkoxy groups may be the same or different; a di(C_1-C_6)alkoxythiophosphoryl group whose (C_1-C_6)alkoxy groups may be the same or different; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are

contd. B3

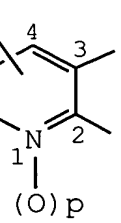
selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; a phenyl(C_1-C_4)alkyl group; a substituted phenyl(C_1-C_4)alkyl group having on the ring one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)-alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; a heterocyclic group; or a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups), and r is an integer of 1 to 4),

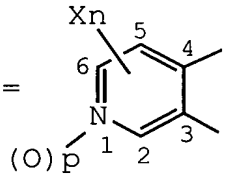
provided that R^1 and R^2 are not hydrogen atoms at the same time,

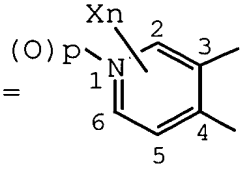
R^1 and R^2 may form a 4 to 7 membered ring by combining to each other, in which the ring may contain the same or different 1 to 3 hetero atoms selected from the group consisting of oxygen atom, sulfur atom and nitrogen atom,

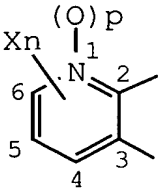
Het is a heterocyclic group represented by any of the following formulas Q1 to Q22:

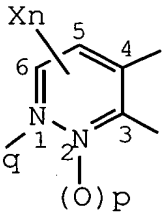
contd.
B3

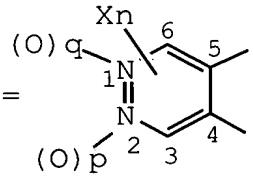
Q1= 

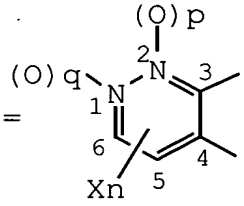
Q2= 

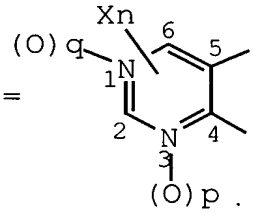
Q3= 

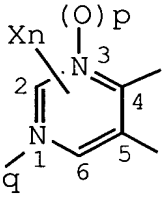
Q4= 

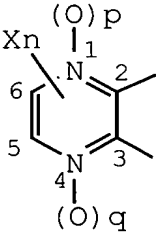
Q5= 

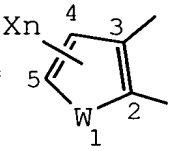
Q6= 

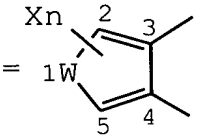
Q7= 

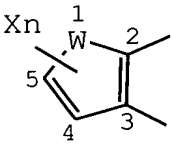
Q8= 

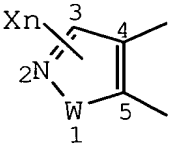
Q9= 

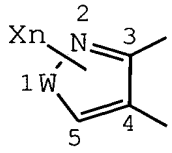
Q10= 

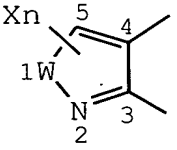
Q11= 

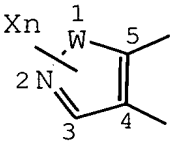
Q12= 

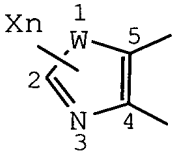
Q13= 

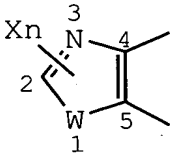
Q14= 

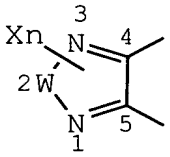
Q15= 

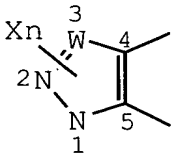
Q16= 

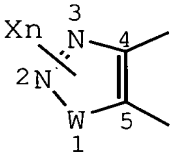
Q17= 

Q18= 

Q19= 

Q20= 

Q21= 

Q22= 

W = O, S, N

contd. B3

(wherein X, which may be the same or different, are halogen atoms; cyano groups; nitro groups; (C_3-C_6)cycloalkyl groups; halo(C_3-C_6)cycloalkyl groups; tri(C_1-C_6)alkylsilyl groups whose (C_1-C_6)alkyl groups may be the same or different; phenyl groups; substituted phenyl groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; heterocyclic groups; substituted heterocyclic groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; or $-A^3-R^8$ [wherein A^3 is –O–, –S–, –SO–, –SO_2–, –N(R^6)– (wherein R^6 is as defined above), –C(=O)–, –C(=NOR^7)– (wherein R^7 is as defined above), a (C_1-C_6)alkylene group, a halo(C_1-C_6)alkylene group, a (C_2-C_6)alkenylene group, a halo(C_2-C_6)alkenylene group, a (C_2-C_6)alkynylene group or a halo(C_3-C_6)alkynylene group, and R^8 is as follows:

(1) when A^3 is –O–, –S–, –SO–, –SO_2– or –N(R^6)– (wherein R^6 is as defined above), then R^8 is a halo(C_3-C_6)cycloalkyl group; a halo(C_3-C_6)cycloalkenyl group; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl

contd. B3

groups; a heterocyclic group; a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; or $-A^4-R^9$ (wherein A^4 is a (C_1-C_6)alkylene group, a halo(C_1-C_6)alkylene group, a (C_3-C_6)alkenylene group, a halo(C_3-C_6)alkenylene group, a (C_3-C_6)alkynylene group or a halo(C_3-C_6)alkynylene group, and R^9 is a hydrogen atom; a halogen atom; a (C_3-C_6)cycloalkyl group; a halo(C_3-C_6)cycloalkyl group; a (C_1-C_6)alkoxycarbonyl group; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; or $-A^5-R^{10}$ (wherein A^5 is –O–, –S–, –SO–, $-SO_2-$ or –C(=O), and R^{10} is a (C_1-C_6)alkyl group; a halo(C_1-C_6)alkyl group; a (C_3-C_6)alkenyl group; a halo(C_3-C_6)alkenyl group; a (C_3-C_6)cycloalkyl group; a halo(C_3-C_6)cycloalkyl group; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; a heterocyclic group; or a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-

contd. B3

C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups)),

(2) when A^3 is –C(=O)– or –C(=NOR^7)– (wherein R^7 is as defined above), then R^8 is a hydrogen atom; a (C_1-C_6)alkyl group; a halo(C_1-C_6)alkyl group; a (C_2-C_6)alkenyl group; a halo(C_2-C_6)alkenyl group; a (C_3-C_6)cycloalkyl group; a halo(C_3-C_6)cycloalkyl group; a (C_1-C_6)alkoxy group; a (C_1-C_6)alkylthio group; a mono(C_1-C_6)alkylamino group; a di(C_1-C_6)alkylamino group whose (C_1-C_6)alkyl groups may be the same or different; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; a phenylamino group; a substituted phenylamino group having on the ring one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; a heterocyclic group; or a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl

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groups, and

(3) when A^3 is a (C_1-C_6)alkylene group, a halo(C_1-C_6)alkylene group, a (C_2-C_6)alkenylene group, a halo(C_2-C_6)alkenylene group, a (C_2-C_6)alkynylene group or a halo(C_3-C_6)alkynylene group, then R^8 is a hydrogen atom; a halogen atom; a (C_3-C_6)cycloalkyl group; a halo(C_3-C_6)cycloalkyl group; a (C_1-C_6)alkoxycarbonyl group; a tri(C_1-C_6)alkylsilyl group whose (C_1-C_6)alkyl groups may be the same or different; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; a heterocyclic group; a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; or $-A^6-R^{11}$ (wherein A^6 is –O–, –S–, –SO– or –SO_2–, and R^{11} is a (C_3-C_6)cycloalkyl group; a halo(C_3-C_6)cycloalkyl group; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; a heterocyclic group; a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen

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atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; or $-A^7-R^{12}$ (wherein A^7 is a (C_1-C_6)alkylene group, a halo(C_1-C_6)alkylene group, a (C_2-C_6)alkenylene group, a halo(C_2-C_6)alkenylene group, a (C_2-C_6)alkynylene group or a halo(C_3-C_6)alkynylene group, and R^{12} is a hydrogen atom; a halogen atom; a (C_3-C_6)cycloalkyl group; a halo(C_3-C_6)cycloalkyl group; a (C_1-C_6)alkoxy group; a halo(C_1-C_6)alkoxy group; a (C_1-C_6)alkylthio group; a halo(C_1-C_6)alkylthio group; a (C_1-C_6)alkylsulfinyl group; a halo(C_1-C_6)alkylsulfinyl group; a (C_1-C_6)alkylsulfonyl group; a halo(C_1-C_6)alkylsulfonyl group; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; a phenoxy group; a substituted phenoxy group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; a phenylthio group; a substituted phenylthio group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-

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C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; a heterocyclic group; or a substituted heterocyclic group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups))], and n is an integer of 0 to 3,

X may form a condensed ring by combining together with the adjacent atoms in the heterocyclic ring, and said condensed ring may have one or more substituents, which may be the same or different, and are selected from halogen atoms; (C_1-C_6)alkyl groups; halo(C_1-C_6)alkyl groups; (C_1-C_6)alkoxy groups; halo(C_1-C_6)alkoxy groups; (C_1-C_6)alkylthio groups; halo(C_1-C_6)alkylthio groups; (C_1-C_6)alkylsulfinyl groups; halo(C_1-C_6)alkylsulfinyl groups; (C_1-C_6)alkylsulfonyl groups; halo(C_1-C_6)alkylsulfonyl groups; phenyl group; substituted phenyl groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; heterocyclic groups; and substituted heterocyclic groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups,

W is O, S or N–R^{13} (wherein R^{13} is a (C_1-C_6)alkyl group; a halo(C_1-

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C_6)alkyl group; a (C_3-C_6)alkenyl group; a halo(C_3-C_6)alkenyl group; a (C_3-C_6)alkynyl group; a halo(C_3-C_6)alkynyl group; a (C_1-C_6)alkoxy group; a phenyl group; a substituted phenyl group having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; a phenyl(C_1-C_6)alkyl group; or a substituted phenyl(C_1-C_6)alkyl group having on the ring one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups), and p and q, which may be the same or different, are integers of 0 to 1),

B^1, B^2, B^3 and B^4, which may be the same or different, are carbon atoms or nitrogen atoms,

Y, which may be the same or different, are halogen atoms; cyano groups; nitro groups; halo(C_3-C_6)cycloalkyl groups; phenyl groups; substituted phenyl groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; heterocyclic groups; substituted heterocyclic groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-

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C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; or $-A^3-R^8$ (wherein A^3 and R^8 are as defined above), and m is an integer of 1 to 5,

Y may form a condensed ring by combining together with the adjacent carbon atoms in the aromatic ring, and said condensed ring may have one or more substituents, which may be the same or different, and are selected from halogen atoms; (C_1-C_6)alkyl groups; halo(C_1-C_6)alkyl groups; (C_1-C_6)alkoxy groups; halo(C_1-C_6)alkoxy groups; (C_1-C_6)alkylthio groups; halo(C_1-C_6)alkylthio groups; (C_1-C_6)alkylsulfinyl groups; halo(C_1-C_6)alkylsulfinyl groups; (C_1-C_6)alkylsulfonyl groups; halo(C_1-C_6)alkylsulfonyl groups; phenyl group; substituted phenyl groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups; heterocyclic groups; and substituted heterocyclic groups having one or more substituents which may be the same or different and are selected from halogen atoms, (C_1-C_6)alkyl groups, halo(C_1-C_6)alkyl groups, (C_1-C_6)alkoxy groups, halo(C_1-C_6)alkoxy groups, (C_1-C_6)alkylthio groups, halo(C_1-C_6)alkylthio groups, (C_1-C_6)alkylsulfinyl groups, halo(C_1-C_6)alkylsulfinyl groups, (C_1-C_6)alkylsulfonyl groups and halo(C_1-C_6)alkylsulfonyl groups, and each of Z^1 and Z^2 is an oxygen atom or a sulfur atom,

provided that:

(1) when Het is Q2, Q6, Q7 or Q9 and B^1, B^2, B^3 and B^4 are carbon atoms at the

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same time, then Ym is other than 3-chloro-2-methyl group, 3-chloro-2,6-diethyl group, 5-chloro-2-methyl group, 2,6-diethyl group, 4-chloro-2-fluoro group and 2-ethyl-6-methyl group,

(2) when Het is Q4 and B^1, B^2, B^3 and B^4 are carbon atoms at the same time, then Ym is other than 2,5-dichloro group, 2,4-difluoro group, 2,6-difluoro group, 3-chloro-2-methyl group, 5-chloro-2-methyl group, 5-fluoro-2-methyl group, 2,6-dimethyl group, 2,6-diethyl group, 2-ethyl-6-methyl group, 2-methoxy-5-nitro group, 2-methoxy-5-methyl group, 2,6-diethoxy group, 3-bromo-2-methyl group, 3-fluoro-2-methyl group, 3-iodo-2-methyl group, 3-cyano-2-methyl group, 3-difluoromethoxy-2-methyl group, 5-chloro-2-ethyl group, 2,5-dimethyl group, 2,3-dichloro group, 3-chloro-2,6-diethyl group, 4-trifluoromethyl group, 3-methoxycarbonyl-2-methyl group, 3-trifluoromethyl-2-methyl group, 3,5-dichloro-2,6-diethyl group, 3,4-dichloro group, 3-(methoxycarbonylmethyloxy)-2-methyl group, 2-methyl-3-nitro group and 4-trifluoromethoxy group,

(3) when Het is Q9, R^2 and R^3 are hydrogen atoms at the same time, Xn is a 2-phenyl group, R^1 is a n-propyl group or an i-propyl group and B^1, B^2, B^3 and B^4 are carbon atoms at the same time, then Ym is other than 4-pentafluoroethyl-2-methyl group, and

(4) when Het is Q10 and B^1, B^2, B^3 and B^4 are carbon atoms at the same time, then Ym is other than 5-chloro-2-methyl group, 5-fluoro-2-methyl group, 2,5-dimethyl group and 2,6-diethyl group, and

(5) when Het is Q10 and B^1, B^2, B^3 and B^4 are carbon atoms at the same time, Xn is other than 5,6-dimethyl group }.